CLAIMS

I CLAIM:

1. An unbonded capping system for compression testing of concrete

2 cylinders, comprising:

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first and second retaining cups comprising metal blocks each having opposite

- parallel planar surfaces, a first of the planar surfaces being engagable by a test apparatus, in use, and a second of the planar surfaces having a cylindrical cavity of a first select diameter for
- 6 receiving one end of the concrete cylinder; and

first and second cylindrical compression pads each to be received in one of the retaining cup cavities to abut an end of the concrete cylinder, in use, and being of a second select diameter smaller than the first select diameter of the cavity to define a circumferential space therebetween, and comprising means for gripping the cavity to prevent the compression pads from falling out of the cavities.

2. The unbonded capping system of claim 1 wherein the first and second retaining cups are of high alloy steel construction.

- The unbonded capping system of claim 1 wherein the first and second
 retaining cups are cylindrically shaped and the parallel planar surfaces define end walls.
- 4. The unbonded capping system of claim 1 wherein the first and second compression pads comprise one piece neoprene pads.
- The unbonded capping system of claim 1 wherein the first and second
 compression pads each comprises a cylindrical sidewall of the second select diameter and the gripping means comprises a plurality of circumferentially spaced nubs extending radially
 outwardly from the sidewall.
- 6. The unbonded capping system of claim 5 wherein the first select diameter

 2 is about 1/16 of an inch larger than the second select diameter.
- 7. The unbonded capping system of claim 6 wherein the nubs have a height of about 1/16 of an inch.
- 8. The unbonded capping system of claim 6 wherein the nubs have a height in a range of about 0.05 to 0.065 inches.

- 9. For use with an unbonded capping system for compression testing of
- 2 concrete cylinders, including first and second retaining cups comprising metal blocks each
 - having opposite parallel planar surfaces, a first of the planar surfaces being engagable by a test
- 4 apparatus, in use, and a second of the planar surfaces having a cylindrical cavity of a first select
 - diameter for receiving one end of the concrete cylinder, first and second compression pads each
- 6 comprising:

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- a cylindrical block of elastomeric material having a cylindrical sidewall, to be
- 8 received in one of the retaining cup cavities to abut an end of the concrete cylinder, in use, the
 - sidewall being of a second select diameter smaller than the first select diameter of the cavity to
 - define a circumferential space therebetween, and comprising means for gripping the retaining
 - cup to prevent the compression pad from falling out of the cavity.
 - 10. The compression pads of claim 9 wherein the first and second
- 2 compression pads comprise one piece neoprene pads.
 - 11. The compression pads of claim 9 wherein the gripping means comprises a
- 2 plurality of circumferentially spaced nubs extending radially outwardly from the sidewall.

- 12. The compression pads of claim 11 wherein the first select diameter is
- 2 about 1/16 of an inch larger than the second select diameter.
 - 13. The compression pads of claim 12 wherein the nubs have a height of
- 2 about 1/16 of an inch.
 - 14. The compression pads of claim 12 wherein the nubs have a height in a
- 2 range of about 0.05 to 0.065 inches.

- 15. In an unbonded capping system for compression testing of concrete
- 2 cylinders, comprising retaining cups comprising metal blocks having a cylindrical cavity of a first select diameter for receiving one end of the concrete cylinder, and cylindrical compression
- pads each to be received in one of the retaining cup cavities to abut an end of the concrete cylinder, in use, and being of a second select diameter smaller than the first select diameter of the
- 6 cavity to define a circumferential space therebetween, the improvement comprising:

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means operatively associated with the compression pads for gripping the retaining cup cavity to prevent the compression pads from falling out of the cavities.

- 16. The improvement of claim 15 wherein the first and second compression pads comprise one piece neoprene pads.
- The improvement of claim 15 wherein the first and second compression
 pads each comprises a cylindrical sidewall of the second select diameter and the gripping means
 comprises a plurality of circumferentially spaced nubs extending radially outwardly from the
 sidewall.
- 18. The improvement of claim 17 wherein the first select diameter is about
 1/16 of an inch larger than the second select diameter.

- 19. The improvement of claim 18 wherein the nubs have a height of about
- 2 1/16 of an inch.
 - 20. The improvement of claim 18 wherein the nubs have a height in a range of
- 2 about 0.05 to 0.065 inches.